

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-183702

(43)Date of publication of application : 03.07.2003

---

(51)Int.Cl. B22F 1/00  
B22F 3/00  
C22C 38/00  
H01F 1/22  
H01F 41/02

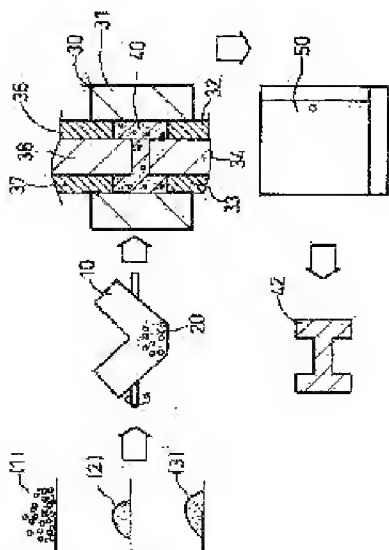
---

(21)Application number : 2001-385039 (71)Applicant : AISIN SEIKI CO LTD  
HOGANAS AB

(22)Date of filing : 18.12.2001 (72)Inventor : IYODA YOSHIHARU  
MARUYAMA KOTA  
KAMIYA NAOKI

---

(54) SOFT MAGNETIC POWDER MATERIAL, SOFT MAGNETIC MOLDED ARTICLE, AND METHOD FOR PRODUCING SOFT MAGNETIC MOLDED ARTICLE



(57)Abstract:

PROBLEM TO BE SOLVED: To provide a soft magnetic powder material which is excellent in high-temperature strength and separability from a mold and has magnetic characteristics (magnetic permeability, saturated magnetic flux density, etc.), and electrical characteristics (resistivity, etc.), compatible with a good balance at a high level; a soft magnetic molded article prepared from the powder material; and a method for producing a soft

magnetic molded article.

SOLUTION: This soft magnetic powder material is a mixture consisting mainly of (1) iron powder particles covered with an insulation film with high electrical insulation properties, (2) a polyamide resin, and (3) a thermoplastic resin having a melting point of 200°C or higher. the soft magnetic molded article is prepared by pressing and then heating the powder material.

